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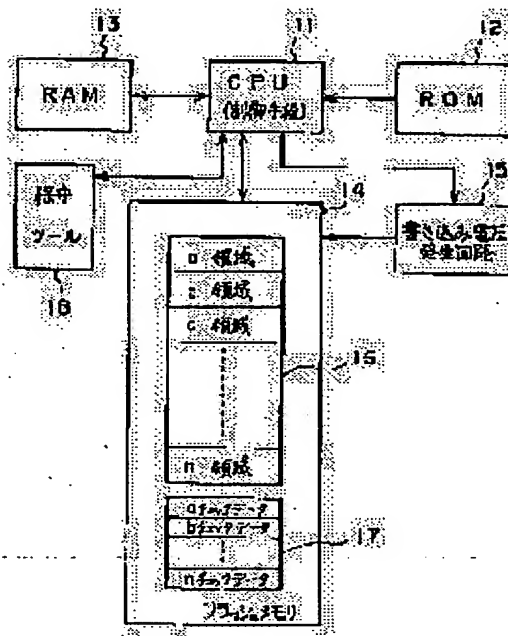
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## (54) INSTRUMENTATION CONTROL DEVICE

(57)Abstract:

**PURPOSE:** To make it possible to independently diagnose a flash memory without duplexing a CPU and preparing a shared memory by computing check data, and at the time of writing a program or the like to be changed in a data area, simultaneously writing the program or the like also in a corresponding check area.

**CONSTITUTION:** When a change request for a program or data stored in a data area 16 of a flash memory 14 is generated from a maintenance tool 18, the changed data are temporarily stored in a RAM 13. Then check data for diagnosing the changed data in the area whose change is requested are computed and the computed result is stored in a RAM 13. Then a write voltage generating circuit 15 is instructed to generate write voltage for the memory 14, the contents of the corresponding area out of plural areas (a) to (n) in the data area 16 are rewritten by the changed data stored in the RAM 13 and an area of a check area 17 corresponding to the changed area is rewritten by the check data stored in the RAM 13.



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